ABSTRACT

A partially redundant, contactless pedal-travel sensor is used for controlling a vehicle. This pedal travel sensor generates at least two redundant signals using a contactless sensor and an electronic circuit. These signals are fed to a control and/or regulating unit, where they are subjected to a plausibility check to detect a faulty pedal-travel sensor. To improve safety during a failure of a pedal-travel sensor and to improve the diagnostic options, it is provided that a specific position of the pedal is detected by a switch and a signal is generated by the switch. Then a plausibility comparison of the signal generated by the switch with the signals generated by the pedal-travel sensor is performed.